Work Order ID 54914



Page 1

January 5, 2010 9:44:52 AM

Item ID:

D206-642-241

Accept

Setup Start

Stop



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

05/01/2010 Start Qty: 1.00 Required Date: 18/01/2010 Req'd Qty: 1.00

್ಷ 🕻 ust Item ID:

& Customer:



Reference:

Approvais:

Process Plan: ___

Date: 10-1-05 Tooling:

Date:

Run

Start



Date:

SPC (Y/N):

Date:

Stop



Sequence ID/ **Work Center ID** Operation Description Set Up/ **Run Hours** Draw Number

Draw Rev.

Plan Accept Qty Code

Reject Qty

Reject Number Stamp

Draw Nbr

Revision Nbr

D2650

Rev F

100

DC

DOCUMENT CONTROL

Memo

0.00

0.00

Document Control

Photocopy bluefile & type labels per PPP D206-642-241

5 Nic/01/06

110

Skidtubes

Skidtubes

Memo

0.00

0.00

Skidtubes

1-Deburr Fwd edge of tube 12- Remove ridge on inside of Fwd edge of tube as per Dwg D2650-3-Weld Fwd Cap as per Dwg D2650. Use aluminum rod. Grind D2647 to fit as required. "Pick: Qty Part Number,

DescriptionBatch A/R Aluminum Rod 612507 4-G

m112 860

120

0.00

Memo

QC6- Inspect dimensions to drawing

Quality Control

W/O:			WORK ORDER CI	HANGES				
DATE	STEP		PROCEDURE CHANGE	Ву	Date	Qty	Approval \ Chief Eng / Prod Mgr	Approval QC Inspector
	Sec. 1	V. V	<u> </u>					
	-⊀'⊊: ≯							
Part No	•	PAR #:	Fault Category:	NCR: Yes	No DQ	A:	Date:	
	Resolu	ition:	Disposition:	QA: N/C (Closed:		Date: _	

NCR:		•	WORK ORD	PER NON-CONFORMANC	E (NCR)			
		Description of NC		Corrective Action Section B		Verification	Annroyal	Annroyal
DAŢĒ	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector
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January 7, 2010 10:54:27 AM

Routing Seq 1 Description/N		Tool Kit/Tape	Std Process ID/ Description	Yield %	Queue Time	Setup Time	Machine Time	Labor Time	Move Time	Var. Outpl/ Outpl. LT
<u>Item ID:</u> D206-642-241	<u>Item !</u>	Name: Replacement S	kidtube							
Routing Type: Produc	etion									
100	DC			100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DOCUMENT CONTROL					0.0000	0.0000	0.0000	0.0000	0.0000	
Photocopy blu	efile & type labels per PPP D206-	642-241 CHG0	05			· · · · · · · · · · · · · · · · · · ·				•
		Т	otal for Routing Seque	ence [100 :	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
110	Skidtubes			100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Skidtubes					0.0000	0.0000	0.0000	0.0000	0.0000	

1-Deburr Fwd edge of tube

2- Remove ridge on inside of Fwd edge of tube as per Dwg D2650

3-Weld Fwd Cap as per Dwg D2650. Use aluminum rod. Grind D2647 to fit as required.

Pick:

Qty : Part Number: Description [] Batch

A/R 🗆 🗎 Alumi

Aluminum Rodi

4-Grind weld flush to cap on top surface only.

5-Cut Aft end as per dwg 2650 from front of tube and Deburr

6-Remove inner indexing ridge on Aft end of skidtube as per Dwg D2650

7-Open holes for Aft end cap as per Dwg D2650 with #30 Drill Bit using DT8025.

8-Drill pilot holes using Dt 8167.

9-Locate DT8732 from inner Aft saddle hole & 3rd crossbolt hole. Insert D3286-1 doubler using DT8732 & D206-642-241-T1, then locating doubler off of 3/16" holes, cleco DT8732 & doubler leaving DT8732 for added support.

10- Drill D3286-1 doubler rivet holes in tube using # 30 drill, spot drilling doubler at the same time.

11-Working from the center out, drill # 30 holes into D3286-1 doubler. Cleco each hole as it is being drilled. Verify angle of holes to accommodate rivet heads.

12-Remove 3/16" cleco's only and open GHW holes to Ø0.500" as per Dwg D2650

13-Remove D3286-1 doubers, identify orientation, deburr, then attach them to the workorder

14-Remove indexing edge using DT8741 as per Dwg D2650

15-C'sink GHW rivet holes as per Dwg D2650

P 19/1/7

Routing Print

January 7, 2010 10:54:30 AM

Routing Seq ID/ Description/Memo	Work Center ID	Tool Kit/Tape	Std Process ID/ Description	Yield %	Queue Time	Setup Time	Machine Time	Labor Time	Move Time	Var. Outpl/ Outpl. LT
120	QC		QC6	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
			QC6- Inspect dimensions to drawing	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	
		•	Total for Routing Sequ	ence [120] :	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
130	Skidtubes			100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Skidtubes					0.0000	0.0000	0.0000	0.0000	0.0000	
1-Open crossbolt holes	to Ø0.3125"						- · ·			
	DT8028-3, then open to		O2650. Open Aft cap ho	ole #6.	K 10)	11/11				
3-Deburr tube and blow	out chips from inside the		Fotal for Routing Sequ	anca (130) ·	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
140	HandFinish		HandFinish1	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
170	Tana misi		Chemical	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
			Conversion Coat per QSI005 4.1	100.0070	V.0000	10/1/	///	0.0000	0.0000	
			Total for Routing Seque	ence 140 :	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
150	QC		QC3	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
			QC3- Inspect Part Finish	100.00%	0.0000	0.0000	0.0000	- 2G	Ø.0000	
		7	Total for Routing Seque	ence 150 :	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
160	Skidtubes			100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Skidtubes					0.0000	0.0000	0.0000	0.0000	0.0000	
1-Open holes to finished	d size as per Dwg D2650,	D2650-3 Drilling De	tail (without cutting flu	id)						
2-C'sink crossbolt space	er holes as per Dwg D2650	(without cutting fluid	i)		l	H	10/1	111		
3-Deburr and blow out	all chips from inside the to	ibe								
			Total for Routing Seque	ence 160] :	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
			0.04	100.000/	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
170	QC		QC6	100.00%	0.0000					
	QC		QC6 QC6- Inspect dimensions to drawing	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	

Routing Print

January 7, 2010 10:54:30 AM

Description/Memo	Work Center ID	Tool Kit/Tape	Std Process ID/ Description	Yield %	Queue Time	Setup Time	Machine Time	Labor Time	Move Time	Var. Outpl Outpl. L
180	Skidtubes			100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.000
Skidtubes	Skidtaoos			100.0070	0.0000	0.0000	0.0000	0.0000	0.0000	0.000
	et doublers as per Dwg D	2650. Micro-shave r	vets as required	_	0.000				0.0000	
2-Bond D2654-3 web it	n place as per QSI 015. E	Ensure holes line up.A	llow 12 Hrs. cure time bef	ore cutting						
	11/Time: (1 4 1,10 [1		۸	n Mr	m - 1	11			
Finish Date:	ITime:IS_*	-		一,竹	, , , , , , , , , , , , , , , , , , ,	0 -1-	//			
Pick:									•	
Qty Part Number De A/R Sikaflex-291i	escription Batch									
Sikaflex expire date:[]	10-07-9	_0								
		,	Fotal for Routing Seque	naa (190) .	0.0000	0.0000	0.0000	0.0000	0.0000	0.000
190	QC		QC5	100.00%	0.0000	0.0000	0.0000	0.0000 0.0000	0.0000	0.000
170	QC		QC5- Inspect part	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.000
			completeness to	100.0070	\bigcirc 11		0.0000	0.0000	0.0000	
			step on W/O	•	•	2				
	::::===	· ·····	Total for Routing Seque	i_ ·	0.0000	0.0000	0.0000	0.0000	0.0000	0.000
200	Skidtubes			100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.000
Skidtubes		7	, / .		0.0000	0.0000	0.0000	0.0000	0.0000	
1-remove alodine from	around hole and prepare f	For welding \mathscr{B}_{\prime}	E 10/01/13							
			y · / · •							
		pacers. Weld as per C	SI 004 and Dwg D2650.	Remember to b	ack drill each h	ole to 0.25" bet	fore welding the o	other		
side. Use aluminum roo		pacers. Weld as per Q	, ,	Remember to b	ack drill each h	ole to 0.25" bet	fore welding the o	other		
side. Use aluminum roo Pick:	d.	pacers. Weld as per Q	, ,	Remember to b	ack drill each h	ole to 0.25" be	fore welding the o	other		
side. Use aluminum roc Pick: Qty:: Part Number@Des	d.		SI 004 and Dwg D2650.	Remember to b	ack drill each h	ole to 0.25" be	fore welding the c	other		
side. Use aluminum roc Pick: Qty::Part Number:Des A/R : Aluminum Rod	d.		SI 004 and Dwg D2650.	Remember to b	ack drill each h	ole to 0.25" be	fore welding the o	other		
side. Use aluminum roc Pick: Qty:: Part Number@Des	d.		SI 004 and Dwg D2650.	Remember to b	ack drill each h	ole to 0.25" be	fore welding the o	other		
side. Use aluminum roo Pick: Qty::Part Number:Des A/R : Aluminum Rod 3-Grind welds flush as p	d. scription(Batch) 11	BE 10 4477	151 004 and Dwg D2650.				·			
side. Use aluminum roo Pick: Qty::Part Number: Dec A/R : Aluminum Rod 3-Grind welds flush as p 4-Using DT8733, insert as required	d. scription('Batch, 7') l. M1/250 7 per Dwg D2650 , t (2) D3286-3 spacers as p	# /0/ /1/ / per QSI 004 and Dwg	SI 004 and Dwg D2650.				·			
side. Use aluminum roo Pick: Qty::Part Number:Des A/R : Aluminum Rod 3-Grind welds flush as p 4-Using DT8733, insert	d. scription('Batch, 7') l. M1/250 7 per Dwg D2650 , t (2) D3286-3 spacers as p	BE 10 4477	151 004 and Dwg D2650.			efore welding o	ther side. Use SS	rod		
side. Use aluminum roo Pick: Qty: Part Number Des A/R Aluminum Rod 3-Grind welds flush as particular desired. 4-Using DT8733, insert as required. A/R ISS Rod!	d. scription('Batch, 7') per Dwg D2650. t (2) D3286-3 spacers as p	# 10/01/15	SI 004 and Dwg D2650.			efore welding o	·	rod		
side. Use aluminum roo Pick: Qty: Part Number Des A/R Aluminum Rod 3-Grind welds flush as particular desired. 4-Using DT8733, insert as required. A/R ISS Rod!	d. scription('Batch, 7') l. M1/250 7 per Dwg D2650 , t (2) D3286-3 spacers as p	$A \in A$ A $A \cap A \cap A$ Der QSI 004 and Dwg $A \cap A \cap A \cap A \cap A \cap A$ Find $A \cap A $	SI 004 and Dwg D2650.	ck drill each hol	e to Ø0.402" be	efore welding o	ther side. Use SS	rod à		
side. Use aluminum roo Pick: Qty: Part Number Des A/R Aluminum Rod 3-Grind welds flush as p 4-Using DT8733, insert as required. A/R SS Rod! MON 5-Counterbore 5/16" x (d. scription(`Batch. \textstyle{N1/250} 7 per Dwg D2650 / t (2) D3286-3 spacers as p \textstyle{L} & & & & & & & & & & & & & & & & & & &	$A \in A$ A $A \cap A \cap A$ Der QSI 004 and Dwg $A \cap A \cap A \cap A \cap A \cap A$ Find $A \cap A $	SI 004 and Dwg D2650.	ck drill each hol	e to ∅0.402" be Aw v 0.0000	efore welding o	ther side. Use SS -/- &	rod &	0.0000	
side. Use aluminum roo Pick: Qty: Part Number Dec A/R Aluminum Rod 3-Grind welds flush as 4-Using DT8733, insert as required. A/R SS Rod MOM 5-Counterbore 5/16" x 0	d. scription('Batch, 7') per Dwg D2650. t (2) D3286-3 spacers as p	$A \in A$ A $A \cap A \cap A$ Der QSI 004 and Dwg $A \cap A \cap A \cap A \cap A \cap A$ Find $A \cap A $	SI 004 and Dwg D2650.	ck drill each hol	e to Ø0.402" be 0.0000 0.0000	efore welding of 0.0000 0.0000	ther side. Use SS -/- & 0.0000 0.0000	rod 0.0000 0.0000	0.0000	
side. Use aluminum roo Pick: Qty: Part Number Des A/R Aluminum Rod 3-Grind welds flush as a 4-Using DT8733, insert as required. A/R SS Rod! A/C 5-Counterbore 5/16" x 0 210 HandFinishing	d. scription('Batch, 7) per Dwg D2650. t (2) D3286-3 spacers as p Co.750" deep except 7th ho HandFinish	$A \in A$ A $A \cap A \cap A$ Der QSI 004 and Dwg $A \cap A \cap A \cap A \cap A \cap A$ Find $A \cap A $	SI 004 and Dwg D2650.	ck drill each hol	e to ∅0.402" be Aw v 0.0000	efore welding o	ther side. Use SS -/- &	rod &		0.000 (0.000
side. Use aluminum roo Pick: Qty: Part Number Des A/R Aluminum Rod 3-Grind welds flush as a 4-Using DT8733, insert as required. A/R SS Rod! A/C 5-Counterbore 5/16" x 0 210 HandFinishing	d. scription(`Batch. \textstyle{N1/250} 7 per Dwg D2650 / t (2) D3286-3 spacers as p \textstyle{L} & & & & & & & & & & & & & & & & & & &	$A \in A$ A $A \cap A \cap A$ Der QSI 004 and Dwg $A \cap A \cap A \cap A \cap A \cap A$ Find $A \cap A $	SI 004 and Dwg D2650.	ck drill each hol	e to Ø0.402" be 0.0000 0.0000	efore welding of 0.0000 0.0000	ther side. Use SS -/- & 0.0000 0.0000	rod 0.0000 0.0000	0.0000	

January 7, 2010 10:54:35 AM

Routing Seq ID/ Description/Memo	Work Center ID	Tool Kit/Tape	Std Process ID/ Description	Yield %	Queue Time	Setup Time	Machine Time	Labor Time	Move Time	Var. Outpl/ Outpl. LT
220	QC		QC9	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1			QC9- Inspect visual	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	
			per QSI004- Fusion Welds		2C9-101	06.10.01	-	<u> </u>	00-50	do1/20
		- 	Total for Routing Sequen	ice 220 :	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
230	QC		QC5	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
			QC5- Inspect part completeness to step on W/O	100.00%	0.0000	ره (مراح ص 0.0000	0.0000	0.0000	0.0000	
			Total for Routing Sequer		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
240	HandFinish		HandFinish2	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
240	Handi inisii		randrinishz Pressure Wash per	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
٩	el 10-0c	-26 EL	QSI005 4.3	100.0070	0.0000					
			Total for Routing Sequer	ice [240] :	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
250	Powdercoat		Powdercoat1	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
			White Gloss(Ref:4.3.5.1)	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	
1113170)		per QSI005 4.3- Alum		•	_				
START TIME: (1 OVEN TEMPERATUI FINISH TIME: (12	1450M RE: 370°F 2115pm	=) M	10-01-26	•	XD					
	J		Total for Routing Sequen	ice 250] :	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
260	QC		QC3	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
			QC3- Inspect Part Finish	100.00%	0.0000	/ 2-8	0.0000	0.0000	0.0000	
			Total for Routing Sequer	-/// 12601 :	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
			rotal for Kouting Sequer	ice 200] :	0.0000	V.UUUU	0.0000	0.0000	0.0000	0.0000

January 7, 2010 10:54:36 AM

Routing Seq ID/ Description/Memo	Work Center ID	Tool Kit/Tape	Std Process ID/ Description	Yield %	Queue Time	Setup Time	Machine Time	Labor Time	Move Time	Var. Outpl/ Outpl. LT
270	HandFinish			100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HandFinishing					0.0000	0.0000	0.0000	0.0000	0.0000	
1- Install inserts & wear A/R. :: Sikaflex-291 _Sikaflex expire date: 1_	pads 14 pen d 19 13 14	se a drop of Sikaflex	inside insert holes befor	re installing wear	pad/wearplate.					
2-Install D2651-3 O-Rin	ngs on D2651-1 plugs wit	th Petroleum Jelly and	install plugs as per Dwg	g D2650 (D2650	-3 detail). Clea	n excess adhesi	ve.			
3-Install MS27039-4-06	Screw as per DEO 9153						/ ,	,		
4 -Install D2646 Aft Ca A/RillSikaflex-291[]_ Sikaflex expire date:[]_	p and seal with Sikagex.	Clean excess adhesive				1	NA	10/01	128	•
5 -Wing Walk as per Dv A/R Batch:	wg D2650-3 and QSI 005	4.4								
Batch:	1113245	· ·	otal for Routing Sequ	ance [270] ·	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
300	QC	•	QC5	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
300	QC		QC5- Inspect part	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
			completeness to step on W/O	-	8/0/01/		•			
		T	otal for Routing Sequ	ence [300] :	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
310	Packaging			100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Packaging					0.0000	0.0000	0.0000	0.0000	0.0000	
Identify and pack for shi Location: PPP Rev:	ipping as per PPP D206-6 - 	564-241								
		Т	otal for Routing Sequ	ence [310] :	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
320	QC		QC21	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
			QC21- Final Inspection - Work Order Release	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	
			otal for Routing Sequ	ence [320]:	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	70 - 4 - 1 . 6	r Alternate Route Pr	1 1 1 07 1700	0 < < 40 0 411	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Work Order ID 54914

January 5, 2010 9:44:52 AM

Required Date: 18/01/2010

Item ID:

D206-642-241

Accept



Setup Start



Stop

Revision ID:

Item Name: Replacement Skidtube

Start Date:

05/01/2010

Start Oty: 1.00 Recard Qty: 1.00



Cust Jem ID:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

0.00

0.00

SPC (Y/N):

Date:

Date:

Rev.

Start



1 W 10/1/11

Sequence ID/

Work Center ID

Operation Description

Skidtubes

Set Up/ **Run Hours** Draw Number Draw Plan Code

Accept Qty

Reject Number

Insp. Stamp

130 -

Skidtubes Skidtubes

Memo

Date:

1-Open crossbolt holes to Ø0.3125" □2-Drill pilot holes using DT8028-3, then open to Ø0.297" as per Dwg D2650. Open Aft cap hole #6.□3-Deburr tube and

blow out chips from inside the tube,

140

Chemical Conversion Coat per QSI005 4.1

0.00

0.00

HandFinish Hand Finishing

Memo

OC3- Inspect Part Finish

150

Memo

0.00

0.00

DE 10/01/11

Quality Control

Run

Reject

Stop



Qty

1 10/1/11

W/O:			WORK ORDER	CHANGES						
DATE	STEP	PR	OCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
		,								
					•		-			
								1 B		
Part No	:	PAR #:	Fault Category:	NCR: Yes	s No DQ	A:	_ Date: _	\		
	Reso	olution:	Disposition:	QA: N/C	Closed:		Date:			
NCR:	art No:Resolution:		WORK ORDER NON-CONFORMANCE (NCR)							

NCR:			WORK ORD	ER NON-CONFORMAN	CE (NCR)			
		Description of NC		Corrective Action Section E	3	Verification	Annuaral	Ammuousi
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector
						:		
						3		
•								
		`					•	

Work Order ID 54914

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January 5, 2010 9:44:52 AM

Item ID:

D206-642-241

Accept

Setup Start

Stop



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

05/01/2010

Start Otv: 1.00 Req'd Qty, 1.00

Cust Item 10: Customer

Reference:

Approvals:

Required Date: 18/01/2010

Process Plan:

Date:

Tooling:

Date:

Start Run



QC:

Date:

SPC (Y/N):

Date:

Stop



10/1/1/

Sequence ID/ Work Center ID

160

Skidtubes Skidtubes

Operation Description

Skidtubes

Skidtubes

Set Up/ **Run Hours** Draw Number

Draw Rev.

Plan Code

Reject Accept Qty Qty

Reject Number Stamp

Insp.

Memo

0.00

0.00

1-Open holes to finished size as per Dwg D2650, D2650-3 Drilling Detail (without cutting fluid) 2-C'sink crossbolt spacer holes as per Dwg D2650(without cutting fluid) 3-Deburr and blow out all chips from inside the

tube.

Memo

170



Quality Control

OC6- Inspect dimensions to drawing

180



Skidtubes

Memo

0.00

0.00

1-Locate, install and rivet doublers as per Dwg D2650. Micro-shave rivets as required 2-Bond D2654-3 web in place as per QSI 015. Ensure holes line

up. Allow 12 Hrs. cure time before cutting Start
Date: 18-1-1/ Time: 1:10 Finish Date: 101/12 Time Q 11:05 Am

SikaFlex

Batch: 112395 exp. Nate: 10-02-20

Dail AC	ospace	Liu							, ·
W/O:		1	WO	RK ORDER CHANGE	S				
DATE	STEP	PRO	OCEDURE CHAN	IGE	Ву	Date Qt	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
W.									
·								····	
Part No) :	PAR #:	Fault Categ	gory:	NCR: Yes	No DQA :		_ Date: _	
	Re	esolution:	Disposition	n:	QA: N/C Cld	osed:		_ Date: _	
NCR:			WORK ORDE	ER NON-CONFORMA	NCE (NCR)			y fe y Education (acres
DATE	CTED	Description of NC	·	Corrective Action Section		Verificat	ion	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section		Chief Eng	QC Inspector
		÷							
									1

Work Order ID 54914

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January 5, 2010 9:44:52 AM

Required Date: 18/01/2010

Item ID:

D206-642-241

Accept

Setup Start

Stop



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

05/01/2010

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Draw

Number

Reference:

Approvals:

Process Plan:

Date: _____

Tooling:

Date:

Draw

Rev.

Plan

Code

Start

Run



Date:

SPC (Y/N):

Set Up/

Run Hours .

Date: ____

Stop

Reject

Qty

Insp.

Stamp

Reject

Number

Sequence ID/ Work Center ID

190

QC

Memo

Operation Description

QC5- Inspect part completeness to step on W/O

Qty

Accept

Quality Control

200

Skidtubes

Skidtubes

Skidtubes

Memo

0.00

0.00

1-remove alodine from around hole and prepare for welding 2-Irsert D2649 crossbolt spacers. Weld as per QSI 004 and Dwg D2650. Remember to back drill each hole to 0.25" before welding the other side. Use aluminum

rod. ☐ Pick: ☐ OtyPart Number Description Bat

210

HandFinish

Hand Finishing

HandFinishing

Memo

0.00

0.00

Install D2680-041 Nut Plate as per Dwg D2650

i BE 10/01/13

H 10/1/20

Duit Acioobace Eta	Aerospace Li	td
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Dart Ae	rospace	Lta						, •
W/O:			W	ORK ORDER CHANGES				
DATE	STEP	PRO	CEDURE CH	ANGE	Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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							ļ.	
Part No	:	PAR #:	Fault Cat	tegory: NC	R: Yes I	No DQA:	Date: _	
	R	esolution:	Dispositi	on: QA	: N/C Clo	sed:	Date: _	
NCR:		V	VORK ORI	DER NON-CONFORMANCE	(NCR)		
DATE	CTED	Description of NC		Corrective Action Section B		Verification	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
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NCR:			WORK ORDE	ER NON-CONFORMANC	SE (NCR)			
		Description of NC		Corrective Action Section B			Annroval	Annrova
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Approval Chief Eng	Approva QC Inspecto
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Work Order ID 54914

Page 5

January 5, 2010 9:44:52 AM

Required Date: 18/01/2010

Item ID:

D206-642-241

Accept



Setup Start

Revision ID:

Replacement Skidtube Item Name:

Start Date:

05/01/2010

Start Qty: 1.00 Req'd Qty: 1.00



Cust Item ID:

Customer:



Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Plan

Code

Start

Run

Stop



QC:

Date:

SPC (Y/N):

Set Up/

Run Hours

Date:

Draw

Rev.

Stop

Reject

Qty

Number Stamp

Insp.

Reject

Sequence ID/ Work Center ID

220

Quality Control

Operation Description

QC9- Inspect visual per QSI004- Fusion Welds

Memo

0.00

Oc9 - 10 10.01.20

Draw

Number

0.00

ac10-8101-1/20

230

OC

QC

Quality Control

QC5- Inspect part completeness to step on W/O

2) Sioloilza

0.00

Accept

Qty

240

HandFinish

Hand Finishing

Pressure Wash per QSI005 4.3

Memo

Memo

all coloriza

0.00

W/O:			WORK ORDER (CHANGES	,			
DATE	STEP	PRO	CEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	o:	PAR #:	Fault Category:	NCR: Ye	s No DC	A:	Date: _	

Resolution: _____ Disposition: ____ QA: N/C Closed: ____ Date: ____

NCR:			WORK ORDE	R NON-CONFORMAN	CE (NCR)			
	T	Description of NC		Corrective Action Section 6	3	Verification	Annroyal	Approx
DATE	STEP	P Description of NC Section A	Section A Initial Action Description Sign & Chief Eng Chief Eng Date		Sign & Date	Section C	Approval Chief Eng	Approval QC Inspecto
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January 5, 2010 9:44:52 AM

Required Date: 18/01/2010

Item ID:

D206-642-241

Accept



Setup Start



Stop

Revision ID: Item Name:

Replacement Skidtube

Start Date:

05/01/2010

Start Otv: 1.00

Reg'd Qty: 1.00



Cust Item ID:

Customer:



Plan

Code

10-01-26-21

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Draw

Number

Date:

Draw

Rev.

Stop

Start



Date:

SPC (Y/N):

Set Up/

Run Hours

Date:

Reject

Oty

Run

Accept

Qty

Number Stamp

Reject

Sequence ID/ Work Center ID

250

Powdercoat

Powder Coating

Operation Description

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

1113170 Memo

0.00 11:45Am DOVEN TEMPERATURE

0.00

START TIME: (2'162 PINISH TIME

370°F

260

QC

Quality Control

OC3- Inspect Part Finish

Memo

=7m. 10/01/27



0.00

0.00

270

HandFinish

Hand Finishing

HandFinishing

1- Install inserts & wearpads as per dwg D2922. Use a drop of Sikaflex inside

insert holes before installing wearpad/wearplate. _A/RSikaflex-291 M // 2 34 5 Sikaflex expire date: _/O/ 0 S 3 O-Rings on D2651-1 plugs with Petroleum

2-Install D2651- = 7 M/ L 10/01/27/



W/O:			WO	RK ORDER CHANG	ES				
DATE	STEP	PR	OCEDURE CHAP	IGE	Ву	Da	ate Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
									·
Part No	:	PAR #:	Fault Categ	ory:	_ NCR: Y	es No	DQA:	Date: _	
	Res	solution:	Disposition	:	_ QA: N/C	Close	d:	Date: _	
NCR:			WORK ORDE	R NON-CONFORMA	ANCE (N	CR)			
DATE	CTED	Description of NC		Corrective Action Section			Verification	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng		jn & ate	Section C	Chief Eng	QC Inspector



January 5, 2010 9:44:52 AM

Req red Date: 18/01/2010

Item ID:

D206-642-241

Accept



Setup Start

Stop



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

05/01/2010 Start Oty: 1.00

Reg'd Qty: 1.00



Cust Item ID:

Customer:



Run

Reference:

Process Plan:

Date: _____ Tooling:

Date:

Start

Approvals:

Date: ____ SPC (Y/N):

Date:

Stop



Sequence ID/ Work Center ID

280

HandFinish

Hand Finishing

Operation Description

Set Up/ **Run Hours**

Draw Number

Draw Plan Rev. Code

Accept Qty

Reject Qty

Insp. Number Stamp

HandFinishing

0.00

0.00

1-Install D2646 Aft Cap and seal with Sikaflex. Clean excess achesive

Wing Walk as per Dwg D2650-3 and QSI 005 4.4 . Batch:



290



Quality Control

OC3- Inspect Part Finish

Memo

Memo

300

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

0.00

Dail Ac	ospace Liu							
W/O:			WORK ORDER (HANGES				
DATE	STEP	PR	OCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No):	PAR #:	Fault Category:	NCR : Ye	s No DQ	A:	Date: _	
.•	Resolu	ıtion:	Disposition:	QA: N/C	Closed:		Date: _	

NCR:		WORK ORDER NON-CONFORMANCE (NCR)								
		Description of NC		Corrective Action Section B		Verification	Annroyal	Approval		
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspecto		
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January 5, 2010 9:44:52 AM

Item ID:

D206-642-241

Replacement Skidtube

Accept



Setup Start



Item Name: Start Date:

Revision ID:

05/01/2010 Start Date: 05/01/2010

Required Fige: 18/01/2010 Start Qty: 1.00 Req'd Qty: 1.00

Cust Item ID:

Customer:

Reference:

Approvals:

Date:

Tooling:

Date:

Start



QC:

Process Plan:

Date:

SPC (Y/N):

Date:

Stop

Run



Sequence ID/ Work Center ID

310

Packaging

Operation Description

Packaging

Set Up/ **Run Hours**

0.00

Draw Number Draw Plan Rev. Code

Accept Qty

Reject Qty

Reject Insp. Number Stamp

Packaging

Memo

Memo

0.00

Identify and pack for shipping as per PPP D206664241 APPLICABLE CLocation:

320

QC

Quality Control

QC21- Final Inspection - Work Order Release

0.00

0.00

10/02/04/J ME 10-2-4

W/O:				WORK ORDER (CHANGES					
DATE	STEP		PR	OCEDURE CHANGE	E	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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	1		-							
Part No	1		PAR #:	Fault Category:	NCR:	Yes	No DQ	A :	_ Date: _	
	R	lesolution:		Disposition:	QA: N	/C CI	osed:		Date: _	
NCB:				WORK ORDER NON-CON	FORMANCE (NCF	3)			

NCR:	WORK ORDER NON-CONFORMANCE (NCR)							
		Description of NC		Corrective Action Section B	3	Verification	Annroval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector
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Single Level Bill o	of Material Standard Report	As of: 1/07/10				
Parent Item ID	0206-642-241	Unit Measure Eac		Replacement	Item ID	· · · · · · · · · · · · · · · · · · ·
Item Name	Replacement Skidtube	·				
Item ID	Item Name	Replacement Item ID	Qty/ Assy	Unit Measure	Eff. Start Date	Eff. Stop Date
BOM Type Pro	duction					D1 •
D3286-1	Doubler		2.0000	Each	12/05/09	B 47692 4 10/1
D2647	Cap		1.0000	Each	12/05/09	13 43846 K 6/117
D2600-1-160 2620	Extrusion Round 3" 206		1.0000	Each	1/07/10	1345898 N 6/17
D2654-3	Web		1.0000	Each	12/05/09	B-48679- AWM
CR3212-4-04	Cherry Rivet		52.0000	Each	1/01/08	M112612 4 10/1/1
D2649	Cross Bolt Spacer		18.0000	Each	12/05/09	B47112(B) BE 1
D3286-3	Spacer		2.0000	Each	12/05/09	B46643 (2) BE 190.
D2680-041	Nut Plate		1.0000	Each	12/05/09	3 55366 D n 6/11
CR3212-4-03	Cherry Rivet		2.0000	Each	1/01/08	m110139 2 760/1/
CCR264SS3-3	Cherry Rivet		2.0000	Each	1/01/08	MII3539 11 10/1
D2646	Aft Cap		1.0000	Each	12/05/09 j	348109 (IX) m-k 10/0
D2651-1	Plug		18.0000	Each	12/05/09	351530 M-LW/01
AN960JD416	Washer		1.0000	Each	1/01/08	4113288 Dm. Liol
D2651-3	O-Ring		18.0000	Each	12/05/09	B46114 (BX)m-1,1
MS27039-1-08	Screw		46.0000	Each	1/01/08	1110467 (462) M-1210
ALS4-1032-130	Insert		44.0000	Each	1/01/08	M 110511 (4X) M/L
MS27039-4-06	Screw		1.0000	Each	1/01/08	41109061 (DM) 10
AN960JD10L	Washer		46.0000	Each		M110985 412 m/
D3537-1	Weáffpad		4.0000	Each		351678 (D) AM 1.1

D 11	D D206 642 241	TI '4 N#	1	D 1			
	D D206-642-241	Unit Measure Eac	ch	Replacement	item ID		
Item Name	Replacement Skidtube						
Item ID	Item Name	Replacement Item ID	Qty/ Assy	Unit Measure	Eff. Start Date		
D3537-3	Wearpad		1.0000	Each	1/07/10	333881 (1X) M-1	11/21/27*
D 3535-13	Wearshoe		1.0000	Each	1/07/10	338759 TX	11/11/0
> D3536-13	Gasket		1.0000	Each	1/\///1\	x / \(\alpha \) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
> D3535-21	Wearshoe		1.0000	Each			
D3536-21	Gasket		1.0000	Each	1/07/10	337624 (D/m) 337351 (D/m) 351647 (D)	LIULUILAT
> D3535-33	Wearshoe		1.0000	Each	1/07/10 j	351647 (Dm-1 351543 (X) m-1	-10/01/27
) _{D3536-33}	Gasket		1.0000	Each	1/07/10	51593 NM-1	LWOULZ

QTY -1	QTY -3	QTY -5	QTY	PART NUMBER	DESCRIPTION	
×				D2650-1	SKIDTUBE ASSEMBLY	7
	х			D2650-3	SKIDTUBE ASSEMBLY	1
		Х	1	D2650-5	SKIDTUBE ASSEMBLY	7
		1.	Х	D2650-7	SKIDTUBE ASSEMBLY]
1	1	1	1	D2600-1-160	EXTRUSION	1
1				D2654-1	WEB	1 .
	1	<u> </u>	<u> </u>	D2654-3	WEB	
	- 6	7 1	1	D2654-5	WEB	1
	•	i	1	D2654-7	WEB	1
1	1	1	1	D2646	AFT CAP	1
1	1	1	1	D2647	CAP	1,
17	18	19	23	D2649	CROSS BOLT SPACER	\mathcal{H}
16	18	14	22	D2651-1	PLUG	74
16	18	14	22	D2651-3	O-RING]
1	1	1	1	D2680-041	NUT PLATE]
2	2			D3286-1	DOUBLER]
2	2			D3286-3	STUD]
42	44	54	60	ALS7-1032-130	INSERT (or AKS4-1032-130, ALS4-1032-130, ALS7-1032-130)	
2	2	2	2	AN960JD10L	WASHER]
2	2	2	2	CCR264SS3-3	RIVET]
2	2	2	2	CR3212-4-03	RIVET]
2	2	2	2	MS27039-1-08	SCREW	
1	1	1	1	MS27039-4-06	SCREW]
1	1	1	1	AN960JD416	WASHER]
52	52			CR3212-4-04	RIVET	1

FINISH: -CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

-POWDER COAT WHITE (4.3.5.1) PER DART QSI 005 4.3

-BLACK ANTI-SKID PAINT AS INDICATED TO 0.5 ABOVE LOCATION RIDGE PER

DART QSI 005 4.4

TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTEO

UNITS: INCHES UNLESS OTHERWISE NOTED

BREAK SHARP EDGES: 0.005 TO 0.010 MAX

IDENTIFICATION: NONE

WEIGHT: N/A

WELD PER DART QSI 004

DAMAGE TOLERANCE ON FWD BEND:

THERE SHOULD BE NO VISIBLE WRINKLES IN THE BEND FROM THE GROUND TO A HEIGHT OF 5 WOHES ABOVE THE GROUND. IT IS ACCEPTABLE TO POLISH OUT GOUGES UP TO 0.020 DEEP IN THE BENT PORTION OF THE TUBE. A

MAXIMUM REDUCTION IN DIAMETER OF 3.150" IS ACCEPTABLE IN THE BENT PORTION OF THE TUBE.

) BOND WEB INTO OUTER TUBE WITH SIKAFLEX-2411-291 ADMESIVE PER DART OSI 615

INSERT D2651-1 PLUG CAV D2651-3 O-RING IN HOLES MARKED 'P' (BOTH SIDES OF TUBE)

1 DRILL 20.297 FOR ALS7-1032-130 INSERTS USING TEMPLATE DT8058-1 ON -1 TUBE, DT8056-3 ON -3 TUBE, DT8056-5 ON -5

TUBE, AND DT8056-7 ON -7 TUBE. INSTALL INSERTS AFTER FINISH.

) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

SHOP COPY **RETURN TO ENGINEERING** UNCONTROLLED COPY SUBJECT TO AMENDMENT WITHOUT NOTICE WORK ORDER NO. 5-1914 AN 10-1-05

REV.	DESCRIPTION	BY	DATE
A	NEW ISSUE	DS	97.03.25
B	AS MANUFACTURED CHANGES	DS	97.06.26
C	CHANGE HOLE PATTERN AND FRONT END	DS	97.18.29
ß	REDRAW; INCORP. DE09136/9153/9163 MOD GROUND HANDLING ON D2650-1/-3	OP	04.05.17
£	RMOVE CBORE, CHG DRULL, ADD CHAMFER	CP CP	06.03.30
F	DRAWING UPDATED TO CURRENT STANDARDS, SHT 6 ADDED, ALL SECTION AND DETAIL VIEWS TRANSFIERED TO SHT 6, SHT 1 IN PL PART 02549 DTY UPDATED, SHT 6 SECT OCC GRIND INSTRUCTIONS DELETED FROM MOTE 7 (SEE NCR 239).	ajs '	68.69.66

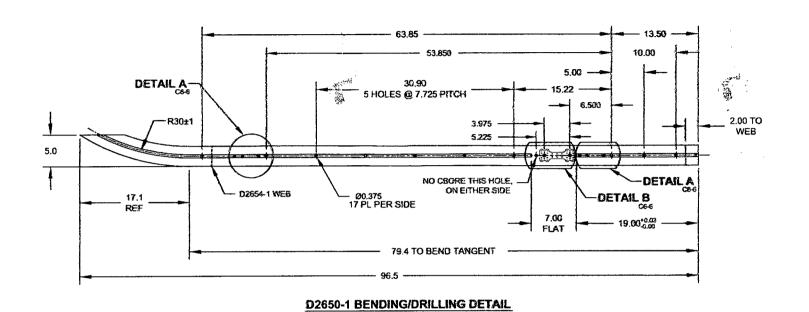
DRAWN	RAWN AJS PORT HADLOCK, MA			
CHECKED	1	DREAMING NO. RI	EV. F	
MFG. APPR.	12	D2650 SHEET	1 O F 6	
APPROVED	10	TITLE	SCALE	
DE APPR.	-	208/407 SKIDTUBE ASSEMBLIES	NTS	
DATE 08.0	THE 08.08.08 INC. STREET, THE			

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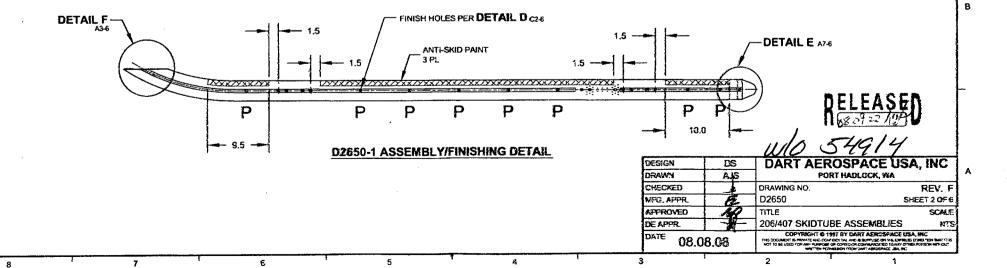
	WORK ORDER	WORK ORDER CHANGES							
STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
		STEP PROCEDURE CHANGE	STEP PROCEDURE CHANGE By	STEP PROCEDURE CHANGE By Date	STEP PROCEDURE CHANGE By Date Qty	STEP PROCEDURE CHANGE By Date Qty Chief Eng / Prod Mgr			

Part No:	_ PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
Resolution:		Disposition:	QA: N/C Closed:	Date:

NCR:			WORK ORDER NON-CONFORMANCE (NCR)							
		Description of NC		Corrective Action Section B			Approval	Approval		
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Chief Eng	QC Inspector		



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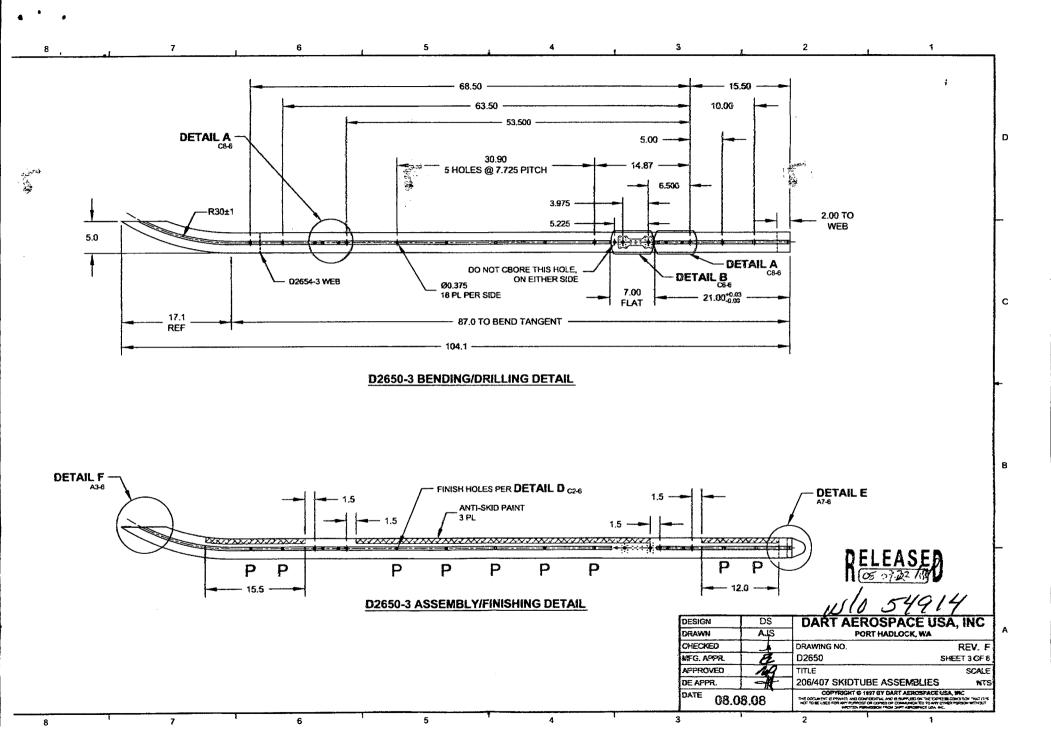


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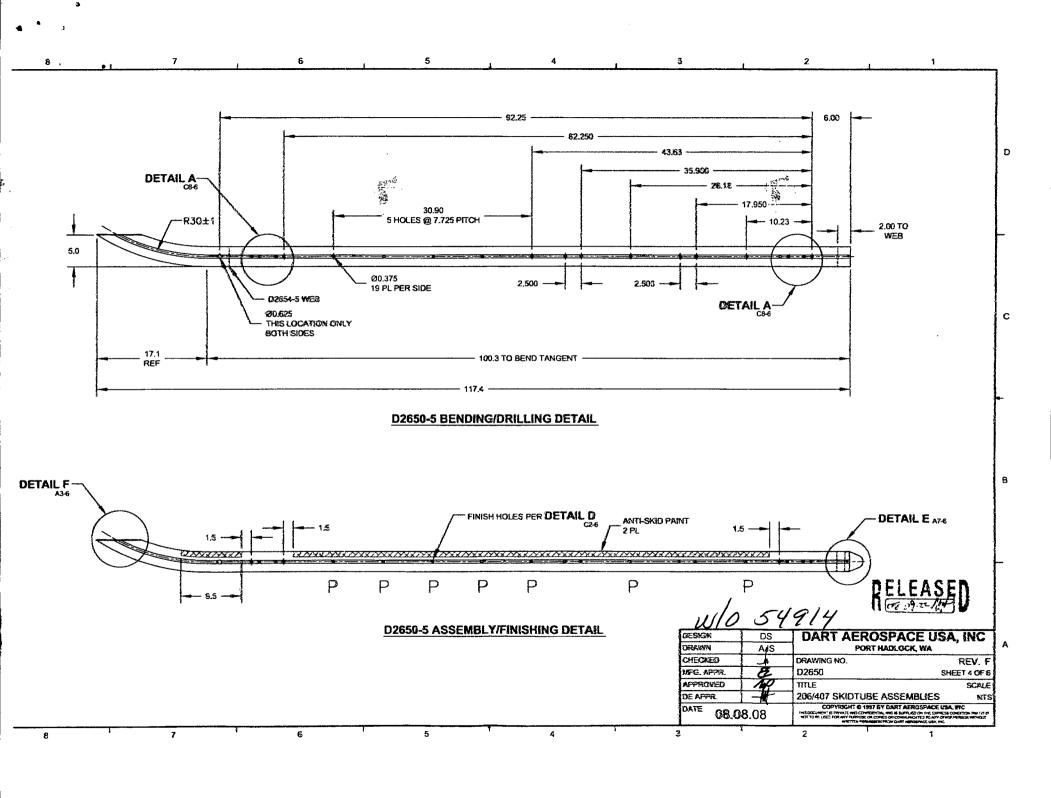
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WORK ORDER CHANGES

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DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	
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NOTE 5	Pate & initial al	P748.						

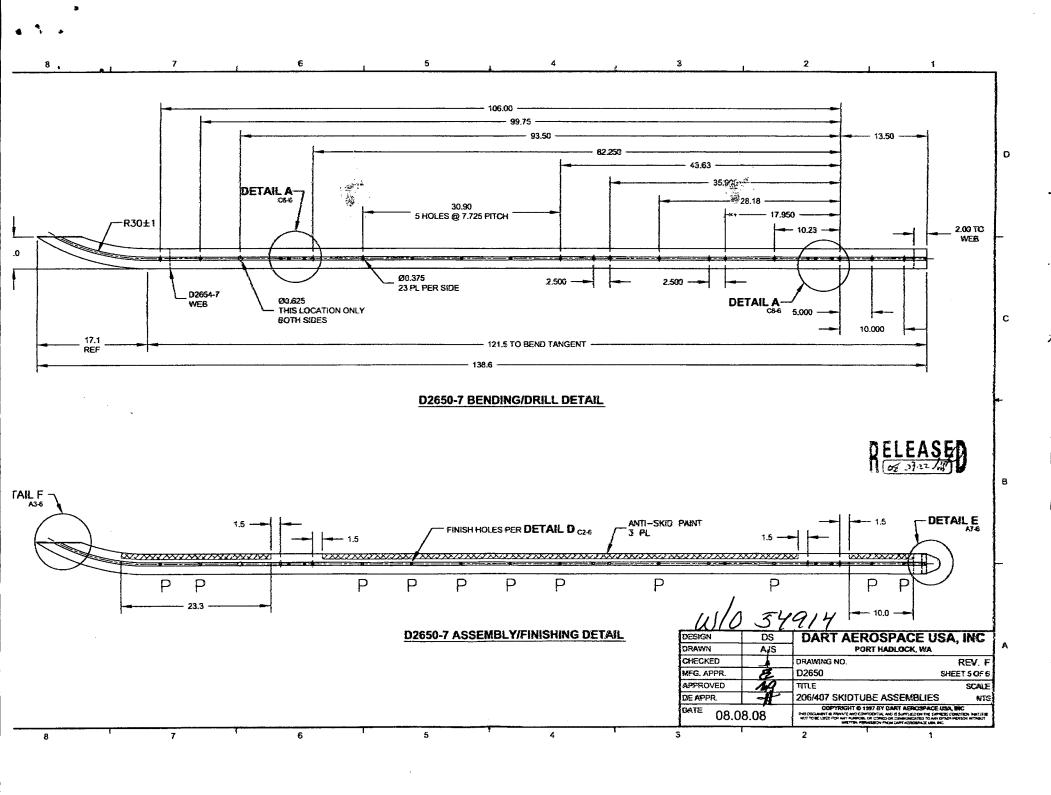


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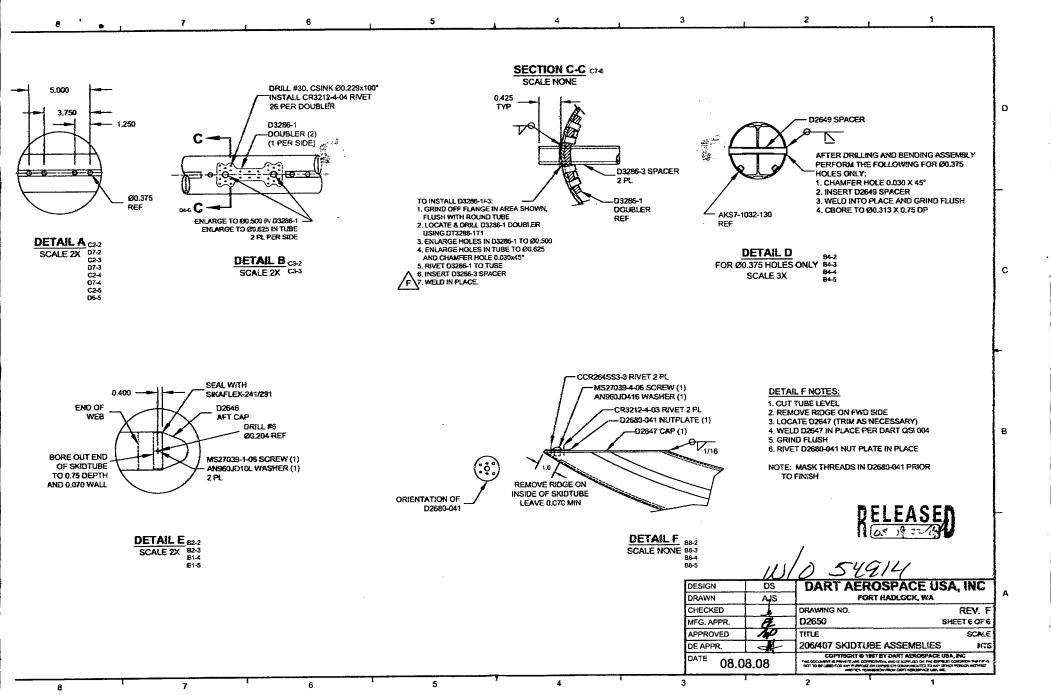
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Resolution:			Disposition	:	_ QA: N/C	Closed: _		Date: _	
NCR:			WORK ORDE	R NON-CONFORMA	ANCE (NO	R)			
DATE	STEP	Description of NC Corrective Action				Veri	fication	Approval	Approvai
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W/O:		WORK ORDER CHANGES								
DATE	STEP			Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
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Part No:	PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
Resolution:		Disposition:	QA: N/C Closed:	Date:

	WORK ORDER NON-CONFORMANCE (NCR)								
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STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	Approval QC Inspector		
	STEP	STEP Description of NC	STEP Description of NC Section A Initial	STEP Description of NC Section A Initial Action Description	STEP Description of NC Section A Initial Action Description Sign &	STEP Description of NC Section A Initial Action Description Sign & Verification Section C	STEP Description of NC Section A Initial Action Description Sign & Verification Section C Sectio		



W/O:		WORK ORDER CHAI	WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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Part No:		PAR #:	Fault Category:	 NCR: Yes No	DQA:	Date: _	
	Resolution:		Disposition:	QA: N/C Close	ed:	Date: _	

NCR:		WORK ORDER NON-CONFORMANCE (NCR)								
DATE STE	T	Description of NC		Corrective Action Section B	Verification		Ī			
	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector		
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AWS D17.1.2001 QUALIFICATION TEST RECORD

Name: Barcley Elliott	
Job number: Dock of 528k7	
Part number: Dade 642.541	
Description: ack skid	
Welding Process: Tig[Mig[]	
Base materiel: Aluminian	
Current: AC[DC[]	

TEST REQUIREMENTS AND RESULTS

Visual: Penetration:	pass[]	fail[] fail[]
<u>UNACCEPTABLE</u>		
Cracks: Undercut: Pin holes: Overlap (cold lap) Porosity (surface): Coloration:	pass[] pass[] pass[] pass[] pass[]	fail[] fail[] fail[] fail[] fail[]
Qualifier Solar Students Welder Brochart Students		est Coupon <u>09-11-10</u>

The above named individual is qualified in accordance with AWS D17.1.2001 to weld